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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: January 26, 2009

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Complete if Known

Application Number	10/748,410
Filing Date	3/1/2004
First Named Inventor	Robert MARTUZA
Group Art Unit	1632
Examiner Name	Wu-Cheng Winston Shen
Attorney Docket Number	066683-0198

Sheet 1 of 8

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	5,585,096		Martuza et al.	12/1996	
	A2	5,571,515		Scott et al.	11/1996	
	A3	6,699,468		Martuza et al.	03/2004	
	A4	5,728,379		Martuza et al.	3/1998	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
	A5		WO 96/00007		GEORGETOWN UNIVERSITY	01/1996	

NON PATENT LITERATURE DOCUMENTS

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	A6	D'Angelica et al., "In vivo IL-2 Gene Transfection of Implanted Tumors with HSV vectors Induces a Systemic Antitumor Response," <i>Immunobiology</i> #3020, <i>Proceedings of the 87th Ann. Mtg. of the Am. Assoc. Cancer Res.</i> , Vol. 37, (March 1996).	
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	A8	R.G. Vile et al., "Targeted Gene Therapy for Cancer: Herpes Simplex Virus Thymidine Kinase Gene-mediated Cell Killing Leads to Anti-Tumour Immunity That Can Be Augmented By Co-expression of Cytokines in the Tumour Cells," <i>Biochemical Society Transactions</i> , Vol. 25 (May 1997).	
	A9	Richard G. Vile et al., "Generation of an Anti-Tumour Immune Response in a Non-immunogenic Tumour: <i>J. Cancer</i> 71 (2) : 267-74 (1997).	
	A10	Wanli Bi et al., "An HSVtk-mediated Local and Distant Antitumor Bystander Effect in Tumors of Head and Neck Origin in Athymic Mice," <i>Cancer Gene Therapy</i> , 4 (4) : 246-52 (1997).	
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Examiner Signature	/Wu-Cheng Winston Shen/	Date Considered	03/08/2009
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Group Art Unit	4644 1632
Examiner Name	Wu-Cheng Winston Shen
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	A12	Sin-ichi Miyake et al., "Defective Herpes Simplex Virus Vectors Expressing Thymidine Kinase for the Treatment of Malignant Glioma," <i>Cancer Gene Therapy</i> , 4 (4) : 222-28 (1997).	
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	A19	Cindy Tung et al., "Rapid Production of Interleukin-2-Secreting Tumor Cells by Herpes Simplex Virus-Mediated Gene Transfer: Implications for Autologous Vaccine Production," <i>Human Gene Therapy</i> , 7 : 2217-24 (December 1996).	
	A20	Alberto L. Epstein, "HSV-1 Amplicons. Advantages and Disadvantages of a Versatile Vector System," <i>Restorative Neurology and Neuroscience</i> , 8 : 41-43 (1995).	
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	A24	Giorgio Parmiani et al., "Cytokine Gene Transduction in the Immunotherapy of Cancer," <i>Adv. Pharmacol.</i> , 40 : 259-89 (1997).	
	A25	J.C. Glorioso et al., "Development and Application of Herpes Simplex Virus Vectors for Human Gene Therapy," <i>Annu. Rev. Microbiol.</i> 49 : 675-710 (1995).	

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Group Art Unit	4644 1632
Examiner Name	Wu-Cheng Winston Shen
Attorney Docket Number	066683-0198

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	A27	Alfred I. Geller et al., "A Defective HSV-1 Vector Expresses Escherichia coli β -Galactosidase in Cultured Peripheral Neurons," <i>Science</i> , 241 : 1667-69 (September 1988).	
	A28	Todo et al., "Treatment of Experimental Brain Tumors by Induction of Systemic Antitumor Immunity Using a Replication-Competent Herpes Simplex Virus", <i>The 88th Annual Meeting of American Association of Cancer Research</i> (San Diego, CA), April 12-16, 1997.	
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	A31	M. J. Davidson et al., "Termination of the Sequence Alteration in the DNA of the Herpes Simplex Virus Type 1 Temperature-Sensitive Mutant ts K"; <i>J. Gen. Virol.</i> (1984), 65:859-863.	
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	A34	Restifo et al., <i>J. Immunother.</i> 14:182-190, (1993).	
	A35	Huang et al. <i>Science</i> , 264:961-965, (1994).	
	A36	Andreansky et al., <i>Canc. Res.</i> , 57:1502-1509, (1997).	
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	A38	Oppenheim et al., "Prospects for Cytokine and Chemokine Biotherapy", <i>Clinical Cancer Research</i> , Vol. 3, pp. 2682-2686, 1997	
	A39	Parmiani et al., "Cytokine Gene Transduction in the Immunotherapy of Cancer", <i>Adv. Pharmacol.</i> , Vo. 40, pp. 259-307, 1997	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/748,410
		Filing Date	3/1/2004
		First Named Inventor	Robert MARTUZA
		Group Art Unit	3644 1632
		Examiner Name	Wu-Cheng Winston Shen
Date Submitted: January 26, 2009		Attorney Docket Number	066683-0198
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Sheet	4	of	8

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	A40	Rollins, Barrett J., "Chemokines", <i>Blood</i> , Vol. 90, No. 3 pp. 909-928, 1997	
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	A43	Iida et al., "Protective Activity of Recombinant Cytokines Against Sendai Virus and Herpes Simplex Virus (HSV) Infections in Mice", <i>Vaccine</i> , Vol. 7, pp. 229-233, 1989	
	A44	Liu et al., "ICP34.5 Deleted Herpes Simplex Virus with Enhanced Oncolytic, Immune Stimulating, and Anti-Tumor Properties", <i>Gene Therapy</i> , Vol. 10, pp. 292-303, 2003	
	A45	Matsuo et al., "Interleukin-12 Protects Thermally Injured Mice from Herpes Simplex Virus Type 1 Infection", <i>Journal of Leukocyte Biology</i> , Vol. 59, pp. 623-630, 1996	
	A46	Parker et al., "Engineered Herpes Simplex Virus Expressing IL-12 in the Treatment of Experimental Murine Brain Tumors", <i>PNAS</i> , Vol. 97 (5), pp. 2208-2213, 2000	
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	A53	MEKO et al., (1995) <i>Cancer Research</i> , Vol. 55(1), 4765-4770.	

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	A54	RAMSHAW et al., (1997) Immunological Reviews, Vol. 159, pp. 119-135.	
	A55	BRANSON et al., (1996) Human Gene Therapy, Vol. 7, No. 16, 1995—2002.	
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	A58	Toda et al. "Herpes Simplex Virus as an <i>In Situ</i> Cancer Vaccine for the Induction of Specific Anti-Tumor Immunity", <i>Human Gene Therapy</i> 10:385-393 (February 10, 1999).	
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	A62	XO Breakefield et al. "New Biologist", 3:203-218 (1991)	
	A63	MCLAUCHLAN et al., "DNA Sequence Homology Between Two Co-Linear Loci on the HSV Genome Which Have Different Transforming Abilities", <i>THE EMBO JOURNAL</i> , Vol. 2, 1953—1961 (1983).	
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A67	MCGECH et al., "Comparative Sequence Analysis of the Long Repeat Regions and Adjoining Parts of the Long Unique Regions in the Genomes of Herpes Simplex Viruses Types 1 and 2", Journal of General Virology, Vol. 72: 3057-3075 (1991).		
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A70	SZE et al., "The Herpes Simplex virus type 1 ICP6 Gene is Regulated by a "Leaky" Early Promoter", Virus Research Vol. 26:141-152, (1992).		
A71	GOLDSTEIN et al., "Herpes Simplex Virus Type 1-Induced Ribonucleotide Reductase Activity is Dispensable for Virus Growth and DNA Synthesis: Isolation and Characterization of an ICP6 lacZ Insertion Mutant", Journal of Virology, Vol. 62: 196-205, (1988).		
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Date Submitted: January 26, 2009

(use as many sheets as necessary)

Sheet 7 of 8

Complete if Known

Application Number	10/748,410
Filing Date	3/1/2004
First Named Inventor	Robert MARTUZA
Group Art Unit	1644 1632
Examiner Name	Wu-Cheng Winston Shen
Attorney Docket Number	066683-0198

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A80	ROIZMAN et al., "Genetic Engineering of Novel Genomes of Large DNA Viruses", Science, Vol. 229:1208-1214 (1985).	
	A81	GOODMAN et al., "Identification, Transfer, and Characterization of Cloned Herpes Simplex Virus Invasiveness Regions", Journal of Virology, Vol. 63:1153-1161 (1989).	
	A82	CHOU et al., "The Terminal of Sequence of the Herpes Simplex virus Genome Contains the Promoter of a Gene Located in the Repeat Sequences of the L Component", Journal of Virology, Vol. 57:629-637 (1986).	
	A83	BOLOVAN et al., "ICP34.5 Mutants of Herpes Simplex Virus Type 1 Strain 17syn+ Are Attenuated for Neurovirulence in Mice and for Replication in Confluent Primary Mouse Embryo Cell Cultures", Journal of Virology Vol. 68:48-55 (1994).	
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	A85	Bernard MOSS, "Genetically engineered poxvirus for recombinant gene expression, vaccination and safety", Proc Natl Acad Sci USA, Vol. 93. pp. 11341-11348, October 1996.	
	A86	Stephen H. THORNE et al., "The Use of Oncolytic Vaccinia Viruses in the Treatment of Cancer: A New Role for an Old Ally?", Current Gene Therapy, 2005, 5; 429-443.	
	A87	David BARBA et al., "Development of anti-tumor immunity following thymidine kinase-mediated killing of experimental brain tumors", Proc. Natl. Acad. Sci. USA vol. 91, pp. 4348-4352, May 1994.	
	A88	Robert M. BERMAN et al., "Systemic Administration of Cellular IL-10 Induces an Effective Specific and Long-Lived Immune Response Against Established Tumors in Mice", The Journal of Immunology 1996, 157:231-238.	
	A89	Mario P. COLOMBO et al., "Immunotherapy I: Cytokine gene transfer strategies", Cancer and Metastasis Reviews 16: 421-432, 1997.	
	A90	Jan Bubenik , "CYTOKINE GENE-MODIFIED VACCINES IN THE THERAPY OF CANCER", PHARMACOL. THER. VOL. 69, NO. 1, PP. 1-14, 1996.	
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	A92	Jie WANG et al., "PARADOXICAL EFFECT OF GM-CSF GENE TRANSFER OF THE TUMORIGENICITY AND IMMUNOGENICITY OF MURINE TUMORS", Int. J. Cancer: 75, 459-466 (1998).	

Examiner
Signature

/Wu-Cheng Winston Shen/

Date

Considered

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Sheet	8	of	8		

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Examiner Signature	/Wu-Cheng Winston Shen/	Date Considered	03/08/2009
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